

SLER EHRMAN WHITE & MCAULIFFE
Sheet 1 of 6
LA REINFORMIS FLUGRESCENT PROTEINS, NUCLEC ACIDS
JOINT THE FLUGRESCENT PROTEINS AND THE USE THEREOF...
DOCKET NO. 24729-128, Bryan et al.
Filed: March 15, 2001

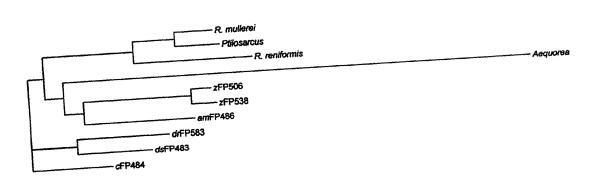
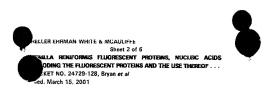
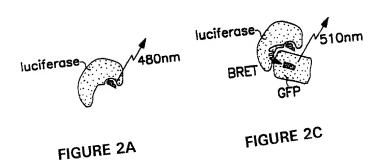


FIGURE 1





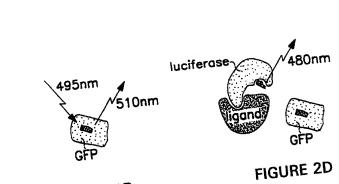


FIGURE 2B

FIGURE 2

15°

37°



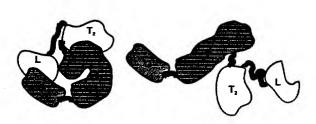






optimized energy transfer module

simple conformational change



complex conformational change



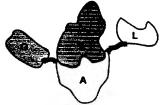


association/dissociation



small molecule interference





large molecule interference



luciferase



GFP



protein domain



antibody fragment



small molecule

BRET sensors are depicted for permissive and non-permissive binding states of the target molecules. Binding may be modulated by varying temperature or ionic strength.

Utilization of advantageous GFP surfaces with substituted fluorophores

		60	*	80		
RM-GFP	:	GAPLPFAFDI	VSPAFQYG	NRTFTKYPND	IS :	83
Pt-GFP	:	GGPLPFAFDI	VSIAFQYG	NRTFTKYPDD	IA:	83
RR-GFP	:	GAPLPFAFDI	VSVAFSYG	NRAYTGYPEE	IS :	80
cFP484	:	GAPLPFSYDI	LSNAFQYG	NRALTKYPDD	IA:	83
drFP583	:	GGPLPFAWDI	LSPQFQYG	SKVYVKHPAD	IP :	8:0
asFP595	:	GGPLPFAFHI	LSTSCMYG	SKTFIKYVSG	IP :	77
dsFP483	:	GGPLPFGWHI	LCPQFQYG	NKAFVHHPDN	IH:	80
amFP486	:	GGPLAFSFDI	LSTVFKYG	NRCFTAYPTS	MP :	8:2
zFP506	;	GGPLPFAEDI	LSAAFNYG	NRVFTEYPQD	IV :	80
zFP538	:	GGPLPFSEDI	LSAGFKYG	DRIFTEYPOD	:VI	80

FIGURE 4

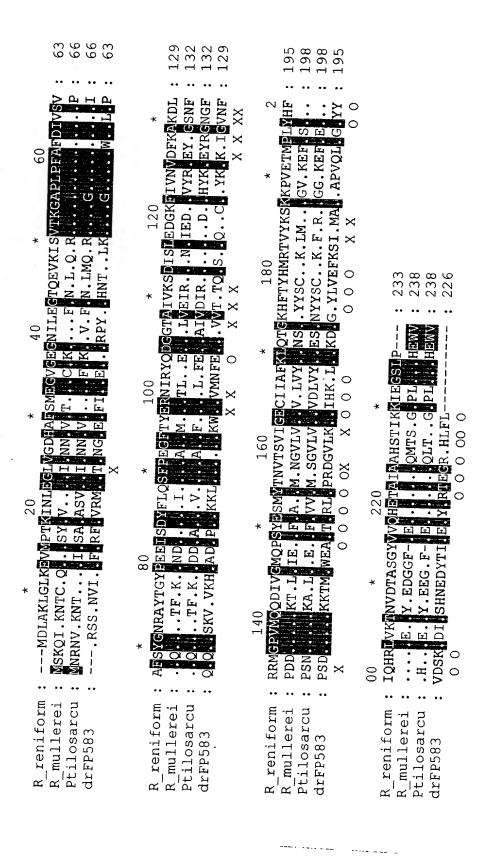


FIGURE 5

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** 60 ** 40 ** 40 ** ANGRELTTCHVPILLOGYNGHKESVGGEGEGDATYGKLTIKETCTPGKLPPRPTLYTFESGGYGERRIPEBHA MSROLLKRTGLEGUNSTYKNILG GYNGHREYDEGGEGDATYGKLTIKETCTPGKLPPRPDIJSTREPROGGESKYVKREBADI
--

FIGURE 6

hydrophilic hydrophobic

dimerization surfaces

C,P not grouped

A,G small

D,E,H,K,R N,Q,S,T L,I,V,M,F,Y,W polar charged polar uncharged non-polar hydrophobic

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